Puerto Rico Coal Ash Site Sampling **November 14, 2011**

Objective

Collect one or more groundwater grab samples at each of seven sites at which coal ash has been placed on land, to evaluate potential ground water contamination from leaching of hazardous constituents. Collect a background grab sample at each site to allow assessment calculation of "significant" contamination levels using the CERCLA standard (i.e., three times background constituent levels or constituent detection if constituents not detected at background).

Method

Utilize temporary bore holes (i.e., "Hydropunch") to sample ash placement perimeter and upgradient locations. Analyze for total metals to determine presence of target analytes Antimony, Arsenic, Boron, and Selenium, as well as other metals which may be present. Utilize existing EQB ground water table measurements to establish approximate drill depths, as Hydropunch equipment must sample a minimum of five feet below water table. Utilize EPA and other available data to identify underlying aquifers and map groundwater flow.

Sites

Salinas

1) Parque Gabriella Housing Development (17.983426/-66.284895)

2) Marbella Housing Development (17.965492/-66.287281)

3) Santa Paulo Oil Construction Site (17.994806/-66.220053)

Guayama

4) AES Well Field (17.966579/-66.139061)

5) Los Recreos Plaza (17.983545/-66.126669)

Arroyo

6) Eta Sigma Alpha, Inc., Construction Site (17.975057/-66.041418)

7) Arroyo Town Center (17.974517/-66.054668)